

IN THE CLAIMS

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1. (original) A wireless mouse and reader combination, comprising:

a source of an interrogating field;

a wireless mouse having a movable XY encoder, a plurality of mouse control buttons, at least one antenna, and one or more passive transponder circuits coupled to the at least one antenna and associated with the XY encoder and plurality of mouse control buttons and providing a response to the interrogating field identifying XY encoder motion and mouse control button activation; and

a reader including a decoder for determining the response from the passive transponder circuits.

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2. (original) A wireless mouse and reader combination as set out in claim 1, wherein said XY encoder comprises a ball adapted to rotate in response to mouse motion and X and Y encoder wheels coupled to the ball so as to respectively rotate in response to mouse motion in perpendicular directions.

3. (original) A wireless mouse and reader combination as set out in claim 2, wherein said XY encoder wheels further comprise a circuit element coupled to said one or more passive transponder circuits so as to tune and detune said one or more passive transponder circuits in response to mouse motion in X and Y directions.

4. (original) A wireless mouse and reader combination as set out in claim 3, wherein said circuit element comprises a circuit element magnetically coupled to said one or more passive transponder circuits.

5. (original) A wireless mouse and reader combination as set out in claim 3, wherein said circuit element comprises a circuit element capacitively coupled to said one or more passive transponder circuits.

6. (original) A wireless mouse and reader combination as set out in claim 1, wherein said interrogating field includes first and second frequencies and wherein said one or more passive transponder circuits comprise first and second passive transponder circuits resonant at said first and second frequencies, respectively.

7. (original) A wireless mouse and reader combination as set out in claim 6, wherein said at least one antenna comprises first and second antennas respectively coupled to said first and second passive transponder circuits.

8. (original) A computer system, comprising:

a monitor;

a processor;

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a wireless mouse having an XY encoder, a plurality of mouse control buttons, at least one antenna, and one or more passive transponder circuits coupled to the at least one antenna and associated with the XY encoder and plurality of mouse control buttons and providing a response to the interrogating field identifying XY encoder motion and mouse control button activation; and

a reader including a source of an interrogating field applied to the antenna of the mouse and a decoder for determining the response from the passive transponder circuits.

9. (currently amended) A method for wireless transmission of data between a

wireless mouse and a reader, comprising:

providing an interrogating field from the reader to the wireless mouse;

receiving the interrogating field at an one or more antennas configured in the

wireless mouse; and

modulating a return field in response to movement of an XY encoder in the mouse forming part of a tuned circuit including the one or more antennas configured in the wireless mouse to thereby encode XY mouse movement information in the modulated return field.

10. (new) A method as set out in claim 9, wherein said modulating comprises tuning and detuning the tuned circuit in response to movement of the encoder.

*Cont* 11. (new) A method as set out in claim 10, wherein said interrogating field includes first and second frequencies and wherein said tuned circuit comprises first and second circuits resonant at said first and second frequencies and separately responsive to X and Y encoder motion, respectively.

12. (new) A method as set out in claim 11, wherein said one or more antennas comprises a first antenna and a second antenna, wherein said first antenna and said second antenna are separately coupled to said first and second circuits.

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